

- 31 -
Abstract

The present invention relates to a novel installation (100) for drying products (70) of the most varied type, the dehumidifying apparatus (10) of which comprises two silica-gel adsorbent bodies (20, 20') which work in alternating operation and which - in a periodically mutually alternating manner - pass through an adsorption or dehumidifying phase (EB) and a regeneration phase (RB), the periodic changeover to the respective other phase and vice versa being effected by means of a control unit (8), which can be supplied with moisture data or the like from moisture sensors or the like, e.g. as a function of the moisture of the air after passing through the adsorbent body (20, 20') which is in the regeneration phase (RB), the dehumidified air (1t) being drawn by means of a suction fan (71) through a drying chamber (7) containing the product (70) to be dried.

20

The novel installation is characterized in that its dehumidifying apparatus (10) - for the provision of regeneration air (1r) - has at least one air-conduction line (47, 57) for the air (1f) which is expelled from the drying chamber (7) and contains the moisture received from the product (70) to be dried and which, as regeneration air (1r) provided for the regeneration of the adsorbent body (20, 20') laden or saturated with water in the regeneration operation (RB), can in each case be introduced in a periodically alternating manner into one of the adsorbent bodies (20, 20') and can be moved or conveyed through the same.

(Fig. 4a)

35